

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(use as many sheets as necessary)

Sheet 1 of 1

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

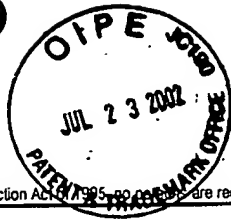
1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**

JAN 15 2004

OFFICE OF PETITIONS

OFFICE OF PETITIONS



PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

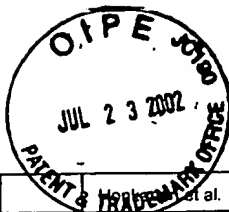
Application Number	09/982,502
Filing Date	October 19, 2001
First Named Inventor	S. Boyd et al.
Group Art Unit	3738
Examiner Name	Not Assigned
Attorney Docket Number	HRT-0279

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
		Number	Kind Code ² (if known)			
DJ		4,531,935		Beryessa	7/85	
		4,531,936		Gordon	7/85	
		4,568,330		Kujawski et al.	2/86	
		4,610,661		Possis et al.	9/86	
		4,637,377		Loop	1/20/87	
		4,643,190		Heimbürger	2/87	
		4,644,651		Jacobsen	2/87	
		4,660,558		Kees, Jr.	4/87	
		4,681,107		Kees, Jr.	7/87	
		4,708,668		Backer	11/87	
		4,760,848		Hasson	8/88	
		4,777,949		Perlin	10/88	
		4,932,955		Merz et al.	6/90	
		4,955,887		Zim	9/90	
		4,961,743		Kees, Jr. et al.	10/90	
		4,973,321		Nichelson	11/90	
		4,974,951		Sander et al.	12/90	
		4,981,471		Quinn et al.	1/91	
		4,997,419		Lakatos et al.	3/91	
		4,998,810		Sander et al.	3/91	
		5,011,469		Buckberg et al.	4/91	
		5,013,296		Buckberg et al.	5/91	
		5,024,668		Peters et al.	6/91	
		5,059,202		Liang et al.	10/91	
		5,074,867		Wilk	12/91	
		5,074,870		Von Zeppelin	12/91	
		5,104,393		Isner et al.	4/92	
		5,108,412		Krumeich et al.	4/28/92	
		5,109,859		Jenkins	5/92	
		5,112,308		Olsen et al.	5/92	
		5,119,883		Green et al.	6/92	
		5,131,905		Grooters	7/21/92	
		5,133,735		Slater et al.	7/92	

TECHNOLOGY CENTER B3700

RECEIVED
JUL 26 2002



18	5,152,780	Honkanen et al.	10/92
	5,158,543	Lazarus	10/92
	5,167,628	Boyles	12/92
	5,169,387	Kronner	12/92
	5,171,256	Smith et al.	12/92
	5,173,803	Heller	12/92
	5,174,300	Bales et al.	12/92
	5,176,649	Wakahayashi	1/93
	5,188,619	Myers	2/93
	5,192,298	Smith et al.	3/93
	5,201,742	Hasson	4/93
	5,203,776	Durfee	4/93
	5,131,805	Grooters	7/21/92
	5,133,735	Slater et al.	7/92
	5,152,780	Honkanen et al.	10/92
	5,158,543	Lazarus	10/92
	5,167,628	Boyles	12/92
	5,169,387	Kronner	12/92
	5,171,256	Smith et al.	12/92
	5,173,803	Heller	12/92
	5,174,300	Bales et al.	12/92
	5,176,649	Wakahayashi	1/93
	5,188,619	Myers	2/93
	5,192,298	Smith et al.	3/93
	5,201,742	Hasson	4/93
	5,203,776	Durfee	4/93
	5,213,093	Swindle	5/93
	5,219,357	Honkanen et al.	6/93
	5,221,281	Klicek	6/93
	5,224,931	Kumar	7/93
	5,234,453	Smith et al.	8/93
	5,242,456	Nash et al.	9/93
	5,250,038	Melker et al.	10/93
	5,271,592	Ludwig	12/93
	5,282,085	Wolkert et al.	1/94
	5,292,817	Hoogeboom et al.	2/94
	5,295,477	Janfaza	3/94
	5,304,183	Groulley et al.	4/94
	5,308,320	Safar et al.	5/94
	5,308,357	Lichtman	5/94
	5,312,344	Grinfeld et al.	5/94
	5,313,934	Wilta et al.	5/94
21	5,321,447	Sander et al.	6/94

TECHNOLOGY CENTER 13700

JUL 26 2002

RECEIVED



10	5,324,447	Kaster et al.	6/94
	5,330,498	Hill	7/94
	5,339,800	Willa et al.	8/94
	5,368,600	Falla et al.	11/94
	5,370,658	Scheller et al.	12/94
	5,386,817	Jones	2/95
	5,402,771	Pilling	4/95
	5,425,705	Evard et al.	6/95
	5,433,700	Peters	7/95
	5,451,207	Yock	9/95
	5,452,733	Sterman et al.	9/95
	5,467,762	Sauer et al.	11/95
	5,501,698	Roth et al.	3/98
	5,509,890	Kazama	4/23/98
	5,569,274	Rapacki et al.	10/98
	5,571,215	Sterman et al.	11/98
	5,571,074	Buckman, Jr. et al.	11/5/98
	5,588,949	Taylor et al.	12/98
	5,695,504	Gifford III et al.	12/97
4	5,735,290	Sterman et al.	7/98

TECHNOLOGY CENTER H3700
JUL 26 2002

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵				
70		CA	2,171,097	A1	Evard	03-30-1995		
		UK	2 140 695	A	Hengstberger et al.	12/5/84		
		UK	2 255 651			11/92		
		AT	78668			9/17		
		DE	2889924	A5		5/91		
		EP	0 218 275			4/87		
		EP	0 357 338			7/90		
		EP	0 668 058	A1	Novoste Corp.	8/23/95		
		WO	92/21298			12/92		
		WO	93/09721			5/93		
		WO	93/18712			9/93		
		WO	93/20741			10/93		
on		WO	95/08364		Stanford Surgical Technologies, Inc.	3/30/95		
Examiner Signature					Date Considered	10/12/06		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

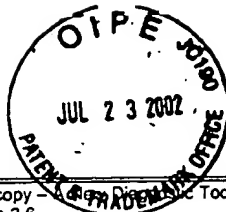
(use as many sheets as necessary)

Sheet 1 of 1

Application Number	09/982,502
Filing Date	10/19/01
First Named Inventor	Stephen W. Boyd
Group Art Unit	3738
Examiner Name	
Attorney Docket Number	HRT-0279

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No.†	Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²
RA		File History of Reexamination No. 90/005,995 for U.S. Patent No. 5,927,284 as of 7/3/01	
		File History of Reexamination No. 90/005,994 for U.S. Patent No. 5,836,311 as of 7/10/01	
		Product Brochure-Buhler-ErgonoMIC-System, GmbH, Mehlbeerenstrasse 2, D-8028 Taufkirchen, Germany.	
		Product Brochure-Suturing, Columbia Presbyterian Hospital, N.Y. New York, and Montreal Medical Center, Tuusker, Georgia.	
		Product Brochure-Szabo-Beroi Needle Driver Set, Storz, Karl Storz Endoscopy, Apr. 1993.	
		Product Brochure-"The ultimate" laparoscopic Needle Holder, WJ Medical.	
		Product Brochure-The Surgical Armamentarium, V. Mueller, Baxter, 1988.	
		Acuflex Rotary Graspers, Acuflex Microsurgical, Inc., Catalog, 1982.	
		Product Brochure-Dekalb Laparoscopic Instruments, Endotec, Endoscopic Technologies, Inc.	
		Product Brochure-Surgical Instruments, STILLE RTM., 1993.	
		Product Brochure, Hermann Dausch-Fabrik Chirurgischer Instrumente, Bahnhofstrasse 76, D-7200 Tuttlingen, Germany.	
		Androsop, P.I. "New Method of Surgical Treatment of Blood Vessel Lesions", Arch Surg. 73:902-910 (1958).	
		Anstadt et al., "Direct Mechanical Ventricular Actuation for Cardiac Arrest in Humans, A Clinical Feasibility Trial", the Cardiopulmonary Journal, Vol. 100, July-Dec, 1991, pp.88-92	
		Berggren et al. "Clinical Experience with the Unilink/3M Precise Microvascular Anastomotic Device", Scand J Plast Reconstr Hand Surg 27:35-39 (1993).	
		Buckberg, G.D. "Strategies and Logic of Cardioplegic Delivery To Prevent, Avoid, and Reverse Ischemic and Reperfusion Damage" J Thorac Cardio Vasc Surg., 1987, 93, 127-129.	
		Conolly, John E., "Assisted Circulation" The Textbook of Surgery, the Biological Basis of Modern Surgical Practice, 10th edition, 1972, pp. 2114-2023	
		Cooper et al. "Development of the Surgical Stapler with Emphasis on Vascular Anastomosis" Transactions-The New York Academy of Sciences, 23:365-377 (1963).	
		Cosgrove, D.M. "Management of the Calcified Aorta: An alternative Method of Occlusion" Ann Thorac Surg. 36:718-719 (1983)	
		Crooke et al., "Biventricular Distribution of Cold Blood Cardioplegic Solution Administered by Different Retrograde Techniques" J Cardiac Thorac Surg., 1991, 102:4, 631-636.	
		DeRossi, A.J., et al., "A New Retractor to Aid in Coronary Artery Surgery", Annals of Thoracic Surgery, Vol. 36, No. 1, July 1983, pp101-102	
		Erath, Jr. and Stoney, Jr. "Balloon Catheter Occlusion of the Ascending Aorta" Ann Thorac Surg. 35:560-561 (1983).	
		J.H. Foster and J.B. Threlkel "Proximal Control of Aorta with a Balloon Catheter" Surg, Gynecology & Obstetrics pp. 693-694 (1971).	
		Gentili et al. "A Technique for Rapid Non-Suture Vascular Anastomosis" Can J Neurol Sci 14:92-95 (1987).	
		Goetz et al. "Internal Mammary-Coronary Artery Anastomosis-A Nonsuture Method Employing Tantalum Rings". Thorac Cardiac Surg 41:378-386 (1961).	
		Gottlob et al. "Anastomoses of small arteries and veins by means of bushings and adhesive" J. Cardiac Surg 9:337-341 (1988).	
		Gundry et al., "A Comparison of Retrograde Cardioplegia Versus Antegrade Cardioplegia in the Presence of Coronary Artery Obstruction" Ann Thorac Surg. Aug. 1984, 38:2, 124-127.	
		Guyton et al. "A Mechanical Device for Sutureless Aorta-Saphenous Vein Anastomosis" Ann Thorac Surg 28:342-345 (1979).	
		Hoerenz, Peter. "The Operating Microscope: I. Optical Principles, Illumination Systems, and Support Systems", Journal of Microsurgery. Mar./Apr. 1980. 1:364-369.	
		Hoerenz, Peter. "The Operating Microscope: II. Individual Parts, Handling, Assembling, Focusing, and Balancing", Journal of Microsurgery. May/Jun. 1980. 1:419-427.	
		Hoerenz, Peter. "The Operating Microscope: III. Accessories", Journal of Microsurgery. Sep. 1980. 2:22-26.	
		Hoerenz, Peter. "The Operator Microscope: IV. Documentation", Journal of Microsurgery. Dec. 1980. 2:126-139.	
		Hoerenz, Peter. "The Operating Microscope: V. Maintenance and Cleaning", Journal of Microsurgery. Mar. 1981. 2:179-182.	
		Holt et al. "A New Technique for End-To-End Anastomosis of Small Arteries" Surg. Forum 11:242 (1960).	
		Inokuchi, K. "A New Type of Vessel-Suturing Apparatus" Arch Surg. 77:954-957 (1958).	
		Inokuchi, K. "Stapling Device for End-to-Side Anastomosis of Blood Vessel" Arch. Surg. 82:337-341 (1961).	
		Ishizaka, "Myocardial Protection by Retrograde Cardiac Perfusion with Cold Modified Krebs Solution Through Coronary Sinus During Complete Ischemic Arrest for 120 min." J Jpn Assn Thorac Surg. 1977, 25:12,1592-1601.	
		Kolessov V.I., The Surgery of Coronary Arteries of the Heart, Leningrad, Meditsina, 1977, pp 360 (Russian Article)	
		Kolessov V.I., The Surgery of Coronary Arteries of the Heart, Leningrad, Meditsina, 1977, pp 360 (English Translation)	
		Landreneau et al. (1992) Ann. Thorac. Surg. 54:800-807.	
		Lanzetta et al. "Long-term Results of 1 millimeter Arterial Anastomosis Using the 3M Precise Microvascular Anastomotic System" Microsurg 13:313-320 (1992).	
		Li et al. "End-To-Side Anastomosis in the Dog Using the 3M Precise Microvascular Anastomotic System: A Comparative Study" J. Reconstr Microsurg 7(4):345-350 (1991).	
		Lust et al., "Improved Protection of Chronically Inflow-Limited Myocardium with Retrograde Coronary Sinus Cardioplegia" Circulation III, Nov. 1988, 78:5, 217-223.	
		Mack et al. "Present Role of Thoracoscopy in the Diagnosis and Treatment of Disease of the Chest", Ann Thorac Surg 54:403-9 (1992).	



50	Maisch & Drude, "Pericardioscopy - A New Diagnostic Tool in Inflammatory Diseases of the Pericardium", European Heart Journal, (1991)12(Supp. D), pp.2-6.	
	Meditech.RTM., Instructions for Use, Occlusion Balloon Catheters Rev. Mar. 1991, pp. 1-7.	
	Miller, T.R. "The Russian Stapling Device" Transactions-The New York Academy of Sciences 25:378-381 (1963).	
	Millex M. Surgical Instruments "Thoracic and Cardiovascular Instruments," Millex Instrument Co., Inc. 1986, p. 319	
	Nakayama et al. "A simple new apparatus for small vessel anastomosis (free autograft of the sigmoid included)" Surgery 52(6):918-931 (1962).	
	Narter et al. "An Experimental Method for Nonsuture Anastomosis of the Aorta" Surg. Gyn. Obstet 119:362-364 (1984).	
	Ogawa, K., "Aortic Arch Reconstruction Without Aortic Cross-Clamping Using Separate Extracorporeal Circulation" J Jpn Assn Thorac Surg, 1993, pp. 2185-2190.	
	Olearchyk, A.S. "Vasilii I. Kolesov-A pioneer of coronary revascularization by internal mammary-coronary artery grafting" J. Thorac Cardiovasc Surg 96:13-18 (1988).	
	Peters, W.S., "The Promise of Cardioscopic Surgery" AustralAs J Cardiac Thorac Surg, 1993, 23:152-154.	
	Pilling surgical Instruments "Aortic Claims" 1993 pp. 348-351.	
	Ragnarsson et al. "Microvenous End-To-Side Anastomosis: An Experimental Study Comparing the Unilink System and Sutures" J Reconstr Microsurg 5(3):217-224 (1989).	
	Ragnarsson et al. "Arterial End-to-Side Anastomosis with the Unilink System" Ann Plastic Surg 22(5):405-415 (1989).	
	Razi, D.M., "The Challenge of Calcific Aortitis" J Cardiac Thorac Surg., 1993, 8:102-107.	
	Rohman et al. Chapter IX-Cardiovascular Technique "Double Coronary Artery-Internal Mammary Artery Anastomoses, Tantalum Ring Technique" Surg. Forum 11:236 (1960).	
	Sabiston, D.C., Textbook of Surgery, 10th Ed., 1972, pp. 2021-2023, 2114-2121.	
	Sakaguchi, H. et al., "Aortic Valve Replacement and Coronary Artery Bypass" J. Japanese Assoc. for Thoracic Surgery 41(6):1063-1068 (1993).	
	Takahashi, M., "Retrograde Coronary Sinus Perfusion for Myocardial Protection in Aortic Valve Surgery" J Jpn Assn Thorac Surg, 1982, 30:3, 306-318.	
	Vogelfanger et al., "A Concept of Automation in Vascular Surgery: A Preliminary Report on a Mechanical Instrument for Arterial Anastomosis" Can. J. of Surg 1:262-265 (1958).	
	Yamaguchi, A., "A Case of a Reoperation Using a Balloon Catheter with Blocked Pars Ascendens Aortae" Kyobu Geka, Oct. 1991, 42:11: 961-964.	
Examiner Signature		Date Considered 10/12/02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

TECHNOLOGY CENTER R3700

JUL 26 2002

RECEIVED